In the Claims:

Please amend Claims 1-3, 7, 15-17, 21, 30-32, and 36, add Claim 44, and cancel Claim 29, all as shown below. Applicant respectfully reserves the right to prosecute any originally presented claims in a continuing or future application.

 (Currently Amended) A method for dynamically binding a user interface to information, comprising:

presenting a user interface to a user wherein the user interface is operable to present information stored in a business object to the user, collect user information from the user, and store the user information in the business object:

defining a data binding tag wherein the data binding tag includes a plurality of attributes; specifying a first action by the data binding tag:

specifying, using a scripting language, at least one attribute on the data binding tag to reference the first data source associated with the with a first language a first action, wherein the first data source is in the business object:

specifying with a second language a first data source associated with the first action;
rendering each item in the first data source in the user interface output—with a third
markup language based at least partially on the first action; and

wherein the second language is embedded in the first language; and wherein the first action can set or get the first data source.

- 2. (Currently Amended) The method of claim 1 wherein:
- the first-language data binding tag allows for the specification of JavaServer Page action elements.
- (Currently Amended) The method of claim 1 wherein:
 the secend scripting language is based on the Javascript language.
- 4. (Original) The method of claim 1 wherein:

the first data source identifies one of: 1) an object field; 2) an object property; and 3) an Extensible Markup Language document element.

 (Original) The method of claim 4 wherein: an object is a JavaBean.

6. (Original) The method of claim 1 wherein:

the first data source is one of: 1) an array; 2) a list; 3) a map.

7. (Currently Amended) The method of claim 1 wherein:

the third-markup_language can include at least one of: Hypertext Markup Language (HTML), Dynamic HTML, Extensible HTML, and Extensible Markup Language.

8. (Original) The method of claim 1 wherein:

the first action can be a child of another action.

9. (Original) The method of claim 1 wherein:

the first action can have at least one child action.

(Original) The method of claim 9 wherein:

the at least one child action can have at least one other child action.

11. (Original) The method of claim 9 wherein:

the at least one child action can selectively process the first data source.

(Original) The method of claim 9 wherein:

the at least one child action can refer to the first data source with a context defined by the first action.

13. (Original) The method of claim 9 wherein:

the at least one child action can perform at least one of the following actions on the first data source: 1) set; 2) get; 3) sort; and 4) filter.

(Original) The method of claim 9, further comprising:

rendering a list or a table based on the first data source.

15. (Currently Amended) A machine readable medium having instructions stored thereon that when executed by a processor cause a system to:

present a user interface to a user wherein the user interface is operable to present information stored in a business object to the user, collect user information from the user, and store the user information in the business object:

specify <u>define a data binding tag</u>, <u>wherein the data binding tag specifies with a first language</u> a first action and wherein the data binding tag includes a plurality of attributes;

specify, using a scripting language, with at least one attribute on the data binding tag to reference a second language a first data source associated with the first action, wherein the first data source is in the business object;

render <u>each item in the first data source in the user interface_eutput-with a third markup</u> language based at least partially on the first action; and

wherein the second language is embedded in the first language; and wherein the first action can set or get the first data source.

- (Currently Amended) The machine readable medium of claim 15 wherein: the first language data binding tag allows for the specification of JavaServer Page action elements.
- (Currently Amended) The machine readable medium of claim 15 wherein: the second scripting language is based on the Javascript language.
- 18. (Original) The machine readable medium of claim 15 wherein: the first data source identifies one of: 1) an object field; 2) an object property; and 3) an Extensible Markup Language document element.
- (Original) The machine readable medium of claim 18 wherein: an object is a JavaBean.
- (Original) The machine readable medium of claim 15 wherein:
 the first data source is one of: 1) an array: 2) a list: 3) a map.

- (Currently Amended) The machine readable medium of claim 15 wherein:
 the third markup_language can include at least one of: Hypertext Markup Language

 (HTML). Dynamic HTML. Extensible HTML, and Extensible Markup Language.
- 22. (Original) The machine readable medium of claim 15 wherein:
 the first action can be a child of another action.
- (Original) The machine readable medium of claim 15 wherein:
 the first action can have at least one child action.
- 24. (Original) The machine readable medium of claim 23 wherein:
 the at least one child action can have at least one other child action.
- 25. (Original) The machine readable medium of claim 23 wherein: the at least one child action can selectively process the first data source.
- 26. (Original) The machine readable medium of claim 23 wherein: the at least one child action can refer to the first data source with a context defined by the first action.
- (Original) The machine readable medium of claim 23 wherein:
 the at least one child action can perform at least one of the following actions on the first data source:
 set; 2) get; 3) sort; and 4) filter.
- 28. (Original) The machine readable medium of claim 23, further comprising instructions that when executed cause the system to:

render a list or a table based on the first data source.

29. (Canceled)

30. (Currently Amended) A software framework for rendering at least one object on a user interface, comprising:

a first-language capable of specifying a first action set of data binding tags specified in a JSP programming language, wherein the data binding tags include a plurality of attributes to reference and display data, and wherein each tag can be used to bind and submit data that a user may edit in a web page;

wherein each attribute can include an expression, written in an expression language, that a second language capable of specifying references a first data source business object that includes data collected from or presented to the user-associated with the first action; and

a third markup language capable of rendering each item in the first business object in a user interface that is referenced by the expression, wherein the expression is evaluated at rendering output based at least partially on the first action:

wherein the second language is embedded in the first language; and wherein the first action can set or get the first data source.

31. (Currently Amended) The framework of claim 30 wherein:

the first language data binding tag allows for the specification of JavaServer Page action elements

- (Currently Amended) The framework of claim 30 wherein:
 the second scripting language is based on the Javascript language.
- 33. (Original) The framework of claim 30 wherein:

the first data source identifies one of: 4) an object field; 2) an object property; and 3) an Extensible Markup Language document element.

- (Original) The framework of claim 33 wherein:
 an object is a JavaBean.
- 35. (Original) The framework of claim 30 wherein: the first data source is one of: 4) an array; 2) a list; 3) a map.

36. (Currently Amended) The framework of claim 30 wherein:

the third markup_language can include at least one of: Hypertext Markup Language (HTML), Dynamic HTML, Extensible HTML, and Extensible Markup Language.

37. (Original) The framework of claim 30 wherein:

the first action can be a child of another action.

38. (Original) The framework of claim 30 wherein:

the first action can have at least one child action.

39. (Original) The framework of claim 38 wherein:

the at least one child action can have at least one other child action.

40. (Original) The framework of claim 38 wherein:

the at least one child action can selectively process the first data source.

41. (Original) The framework of claim 38 wherein:

the at least one child action can refer to the first data source with a context defined by the first action.

42. (Original) The framework of claim 38 wherein:

the at least one child action can perform at least one of the following actions on the first data source: 4) set; 2) get; 3) sort; and 4) filter.

43. (Original) The framework of claim 38 wherein:

a list or a table can be rendered based on the first data source.

44. (New) A system for dynamically binding a user interface to information, comprising:

a computer including a computer readable medium and processor operating thereon;

a user interface that is operable to

present information stored in a business object to a user,

collect user information from the user, and

store the user information within the business object:

a plurality of data binding tags written in a first programming language stored on the computer readable medium wherein each data binding tag

includes a lifecycle associated therewith,

includes a plurality of attributes, and

specifies an action to be performed on the business object wherein the action includes setting or getting information from the business object including the user information:

an expression language that can be used to evaluate expressions on specified business objects, wherein each expression specifies a business object in which the expression is to be evaluated; and

a markup language that can be used to render the specified business objects in the user interface.